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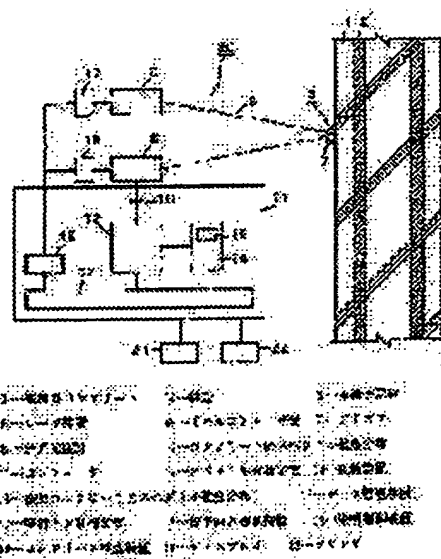
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## (54) METHOD AND DEVICE FOR INSPECTING CONCRETE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a method and device for inspecting a concrete capable of easily inspecting even a large scale concrete structure in a short time.

**SOLUTION:** A concrete 1 which is to be inspected is irradiated with laser light 6 to generate plasma 7 under abrasion. The concrete 1 is inspected with an emission spectral intensity distribution 10 of the plasma 7. For example, neutralization of the concrete 1 is inspected based on the intensity of carbon(C) component in the spectral intensity distribution 10, while the effect level of salt damage of the concrete 1 is inspected based on the intensity of sodium(Na) component and/or chlorine(Cl) component in the spectral intensity distribution 10. In the case of ferroconcrete, corrosion of a reinforcing steel 2 is inspected based on the intensity of iron(Fe) component in the spectral intensity distribution 10. It is preferred that concrete 1 is inspected based on the comparison of intensity between a plurality of specified components in the spectral intensity distribution 10, for example based on the comparison between the intensity of silicon(Si) component and that of carbon in the spectral intensity distribution 10.



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